

Recombinant Mouse Platelet Factor-4/CXCL4 (Mouse PF-4/CXCL4)

Product Information

Product Name	Cat#	Size
Recombinant Mouse Platelet Factor-4/CXCL4 (Mouse PF-4/CXCL4)	90924ES08	5 µg
	90924ES60	100 µg
	90924ES76	500 µg

Product Description

CXCL4, also called PF4, is a small cytokine belonging to the CXC chemokine family and it is also known as chemokine (C-X-C motif) ligand. Mature mouse CXCL4 shares 76%, 88%, 64%, 64% and 63% amino acid sequence identity with human, rat, ovine, porcine and bovine CXCL4, respectively. Recombinant mouse CXCL4 contains 76 amino acids which is a single non-glycosylated polypeptide chain. CXCL4 can be antiproliferative and antiangiogenic, at least in part via interfering with FGF-2 and VEGF heparin binding and thus inhibiting their signaling. Tumor tissue revealed up-regulation of CXCL14 in cancer-associated fibroblasts of a majority of prostate cancer. Fibroblasts overexpressing CXCL14 promoted the growth of prostate cancer xenografts, and increased tumor angiogenesis and macrophage infiltration.

Product Properties

Synonyms	chemokine (C-X-C motif) ligand 4, C-X-C motif chemokine 4, CXCL4, CXCL4iropact, Iropact, MGC138298, Oncostatin-A, PF4, platelet factor 4
Accession	Q9Z126
GeneID	56744
Source	E.coli-derived mouse PF-4/CXCL4 protein, Val30-Ser105.
Molecular Weight	Approximately 8.2 kDa.
AA Sequence	VTSAGPEESD GDLSCVCVKT ISSGIHLKHI TSLEVIKAGR HCAVPQLIAT LKNGRKICLD RQAPLYKKVI KKILES
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>97% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration of 10-100ng/ml. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, 1.5 M NaCl, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!